OUT 66171

T O P S E C R E T 151509Z OCT 68 CITE [redacted] 4817 25X1
PRIORITY [redacted] 25X1
IDEALIST
ATTN:
INFO:

15 Oct 68 16 49Z 25X1

1. THE FOLLOWING ATTITUDE AND POSITION DATA IS REQUIRED FROM THE U2-R SYSTEM EMPLOYING THE IRIS II CAMERA IN ORDER FOR [redacted] TO MOST EXPEDIOUSLY EXPLOIT THE RESULTANT IMAGERY: 25X1

THE RECORDER DATA SHOULD BE MADE AVAILABLE FOR TRANSMISSION IN EXCESS-THREE (XS-3) CODE VIA THE UNIVAC 1004 DATA LINK. EACH BLOCK OF DATA CONTAINS THE INSTANTANEOUS CAMERA AND VEHICLE PARAMETERS FOR THE INSTANT OF ZERO SCAN PASSING. EACH DATA BLOCK TO CONTAIN TWELVE (12) QUANTITIES, TO BE FORMATTED ACROSS THE PAGE EQUALLY. THESE QUANTITIES, THEIR FORMATS, AND UNITS ARE AS FOLLOWS:

1. FRAME COUNT DDDD

DISTRIBUTION	
CY	OFFICE
1	FILE
2	CABLE SEC.
	FP&P/RD
3	SECUR.
4	TSSG ✓
5	TSSG/TMD
	PSG/OC
	RRD 25X1
	REPRO
6	AID
	EEG
	PROD
	SCIEN
	WEST
	EAST
	M&S
	PGM
	IAS
	DIA-XXX
	SPAD
	DIA-AF
	25X1
	CIA

2. TIME (GMT: HRS:MIN:SEC) DD DD DD.DD
3. NADIR LATITUDE (DEG:MIN:SEC) DD DD DD.DDZ (N OR S)
4. NADIR LONGITUDE (DEG:MIN:SEC) DDD DD DD.DDZ (E OR W)
5. ALTITUDE (HUNDREDS OF FEET) DDDD
6. TRUE HEADING (DEG) DDD.D
7. GROUND SPEED (KNOTS) DDD
8. PITCH (DEG: PLUS NOSE UP) SDD.D
9. ROLL (DEG: PLUS LEFT WING UP) SDD.D
10. YAW (DEG: PLUS NOSE LEFT) SDD.D
11. CAMERA POINTING ANGLE (Ø VERT, 1 FORE, 2 AFT) D
12. LINE IDENTIFIER (1, 2, OR3) D
    A. OPTICAL BAR EXPOSURE (1)
    B. TRACKER EXPOSURE (2)
    C. AIRCRAFT DATA ONLY (3)

WHERE D EQUALS NUMERIC, Z EQUALS ALPHABETIC, AND S EQUALS ALGEBRAIC SIGN; POSITIVE IS PLUS OR BLANK, AND NEGATIVE IS MINUS SIGN. THE TRANSMISSION SHOULD BEGIN WITH ONE HEADER BLOCK BEFORE THE DATA BLOCKS. THE HEADER BLOCK SHOULD CONTAIN THE CLASSIFICATION, MISSION NUMBER, DATE OF MISSION,

ADVISE SY CANCELLED WITH [illegible]

 25X1

CAMERA NUMBER(S), CAMERA FOCAL LENGTH(S), AND A SET OF COLUMN HEADERS. EACH QUANTITY IN THE DATA BLOCK MUST HAVE A CONSTANT FIELD WIDTH; I.E., DECIMAL POINTS LINED UP AND LEADING ZEROS WHERE APPLICABLE.

2. THE FRAME COUNT RECORDED ON THE TAPE SHOULD BE

1

THE SAME FRAME COUNT RECORDED ON THE FILM DATA BLOCK. FRAME COUNT SHOULD NOT BE RECORDED ON THE TAPE WHEN THE CAMERA IS NOT IN OPERATION.

3. YAW IS DEFINED AS THE INSTANTANEOUS ANGUALR DIFFERENCE BETWEEN THE GROUND TRACK VELOCITY VECTOR AND THE TRUE HEADING OF THE VEHICLE.

4. ATTITUDE AND POSITION DATA IS REQUIRED ONCE FOR EACH CAMERA(S) OPERATION AND AT A FIXED INTERVAL OF 10 SECONDS WHEN THE CAMERA(S) IS NOT IN OPERATION.

T O P S E C R E T

END OF MESSAGE

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